

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
The Dean Company

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	Aquifer 1 - Tap Water	Bis(2-ethylhexyl)phthalate	7E-07	--	1E-06	--	2E-06	Liver	0.007	--	0.01	0.02
			Chloroform	5E-07	--	1E-06	--	2E-06	Liver	0.03	--	0.05	0.08
			Heptachlor	1E-03	--	6E-04	--	2E-03	Liver	2	--	0.8	3
			Barium	--	--	--	--	--	Heart	0.2	--	--	0.2
			Lead (1)	--	--	--	--	--	--	--	--	--	--
			Manganese	--	--	--	--	--	Central Nervous System	17	--	--	17
			Chemical Total	1E-03	--	6E-04	--	2E-03		19	--	0.9	20
			Radionuclide Total										
			Exposure Point Total					2E-03					20
			Exposure Medium Total					2E-03					20
			Air	Water Vapors from Showerhead	Bis(2-ethylhexyl)phthalate	--	--	--	--	--	--	--	--
					Chloroform	--	1E-05	--	--	1E-05		--	--
					Heptachlor	--	1E-03	--	--	1E-03	--	--	--
					Barium	--	--	--	--	--	--	--	--
					Lead (1)	--	--	--	--	--	--	--	--
					Manganese	--	--	--	--	--	--	--	--
					Chemical Total	--	1E-03	--	--	1E-03	--	5	--
					Radionuclide Total								
					Exposure Point Total				1E-03				5
			Exposure Medium Total					1E-03					5
			Groundwater Total					3E-03					25

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				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total			
Soil	Soil	Soil at Site 1	4,4'-DDD	5E-08	--	--	--	5E-08	--	--	--	--	--			
			4,4'-DDE	1E-06	--	--	--	1E-06	--	--	--	--	--			
			4,4'-DDT	5E-06	--	5E-07	--	6E-06	Liver	0.08	--	0.009	0.09			
			Aluminum	--	--	--	--	--	Central Nervous System	0.01	--	--	0.01			
			Lead (1)	--	--	--	--	--	--	--	--	--	--			
			Manganese	--	--	--	--	--	Central Nervous System	0.002	--	--	0.002			
		Chemical Total		6E-06	--	5E-07	--	7E-06		0.09	--	0.009	0.1			
		Radionuclide Total														
		Exposure Point Total						7E-06					0.1			
		Soil at Site 2	4,4'-DDE	8E-08	--	--	--	8E-08	--	--	--	--	--			
			4,4'-DDT	5E-08	--	6E-09	--	6E-08	Liver	0.0009	--	0.0001	0.001			
			Copper	--	--	--	--	--	Gastrointestinal	0.009	--	--	0.009			
			Iron	--	--	--	--	--	Gastrointestinal	0.1	--	--	0.1			
			Chemical Total	1E-07	--	6E-09	--	1E-07		0.1	--	0.0001	0.1			
		Radionuclide Total														
		Exposure Point Total						1E-07					0.1			
		Exposure Medium Total						7E-06					0.2			
Soil Total								7E-06					0.2			
Receptor Total								3E-03					26			

Total Risk Across All Media = 3E-03

Total Hazard Across All Media 26

Total Liver HI Across All Media = 8

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				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
(1) Lead is evaluated for the resident using the IEUBK model. See Risk Assessment text for discussion of results and appendix for the lead modeling run results.									Total Central Nervous System HI Across All Media =				17